

P. T. A

mining & geology

804

022 331

Turczynowicz B. Exploitation of Peat Marshes and the Use of Peat.

"Eksploatacja torfowisk i użytkowanie torfu" Warszawa, 1944  
Zw (Insp. Spółdz. R. P., 16, pp. 304, 110 figs.

The origin of peat and its properties. Instructions for the exploitation of peat marshes. Preparing peat marshes for exploitation. Peat extraction methods. Transforming the structure of peat. Mechanical transportation of peat to drying fields. The drying of peat. Collection and storage of peat. Organisation of peat farms. Recommendations based on experience, and instructions. The use of peat for fuel purposes. Manufacture of peat-spread and peat powder. Articles of association of a Peat Co-operative.

TURCZYNOWICZ, STANISLAW

Melioracje i zagospodarowanie torfowisk

Warszawa, Poland, Panstwowe Wydawn.Rolnicze i Lesne, 1956. 297 p.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 9, September 1959.  
Uncl.

TURCZYNOWICZ, S.

Prace pomiarowe w melioracjach. (Wyd. 1.) Warszawa, Budownictwo i  
Architektura, 1955. 61 p. (Surveying work in land improvement.  
1st ed. illus., diagrs., tables)

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3,  
March 1956

TURCZYŃOWICZ, S.

"Comparing climatic and agricultural conditions in the basins of the Vistula and Oder Rivers. p. 5." (GAZETA OBSERWATORA), Vol. 6, no. 6, June 1953, Warszawa, Poland

So: Monthly List of East European Accessions L. C. Vol. 2, No. 11, Nov. 1953, Uncl.

TURCZYNOWICZ, S.

Polish Technical Abstracts  
No. 4, 1953  
Agriculture, Food Processing  
Industry, Forestry, Fisheries

2474

631.62/67

• Turczynowicz S. Agricultural Mellorations. Division of Hydrotechniques.

„Melloracje rolne”. Dział Hydrotechniki. Warszawa, 1952, PWRiL, 189, 236 pp., 198 figs., 37 tabs.

Contains the following chapters: Hydrology. Studies for melloration purposes. Water requirements of plants. Indices of excessive soil moisture content and the results thereof. Free runoff. Open ditches. Banks and mechanical raising of water. Land reclamation. Irrigation. Fish ponds. Peat. Drainage. Melloration constructions. Agro.technical mellorations.

GARNUSZEWSKI, R.; TURCZYNOWSKI, R.

Tuberculosis in dogs in Szczecin. Gruzlica 31 no.6:727-730  
Je'63.

1. Klinika Ftizjatryczna PAM, Szczecin.

\*

TURCZYNSKI, Marian, mgr.

General contracting or real coordination of the work on the  
building ground. Przegl budowl i bud mieszk 33 no.6:  
329-330, 337 Je'61

TURCZYNSKI, S.

Noise factor measurement under conditions of continuous wave interference. Przem inst telekom prace 14 no.45:61-64 '64.



L 1723-66 ENT(d)/EED-2

ACCESSION NR: AT5020917

PO/2507/65/000/47-/0041/0046  
621.3.018.756

AUTHOR: Turczynski, S. (Turchin'ski, S.)

TITLE: An exact method for evaluating pulse position

SOURCE: Warsaw. Przemyslowy Instytut Telekomunikacji. Prace, no. 47/48, 1955, 41-46

TOPIC TAGS: pulse analysis, electronic circuit

ABSTRACT: The author analyzes the exact position of Gauss pulses which have an amplitude varying over a wide dynamic range. Practical examples are given. The method consists of feeding a Gauss pulse

$$U_1(t) = U_0 e^{-at^2}$$

to the input terminals shown in fig. 1 of the Enclosure, where  $U_0$  is the amplitude of the pulse,  $a = 2/\tau$ ,  $\tau$  is the length of a pulse on level  $U_0$  and  $t$  is time. The pulse shown in fig. 2b of the Enclosure appears at the base of the transistor. The

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L 1723-66

ACCESSION NR: AT5020917

transistor conducts only when the inequalities

$$u_1(t) = U_0 e^{-\alpha(t-\tau_1)} \quad u_1(t) = U_0 e^{-\alpha(t-\tau_1)} > u_1(t) = U_0 e^{-\alpha t}$$

are satisfied. One of the blocking diodes D1 and D2 is always conducting in the remaining time. The pulse at the collector (fig. 2c of the Enclosure) has a very short build-up time and is delayed with respect to the peak of pulse  $u_1(t)$  at  $0.25\tau_1$  ( $\tau_1$  is line delay). This delay is independent of the pulse amplitude. The pulse length is equal to half the line delay. Oscillograms are given for input and output pulses when the receiver input signals are on the 0, 20 and 50 db levels. The circuit shown in fig. 3. of the Enclosure forms only a single pulse with a short build-up time and a position which is independent of the pulse amplitude. Oscillograms are given for the input and output of this circuit. The information contained in this pulse may be used after predifferentiation. Orig. art. has: 8 figures, 12 formulas.

ASSOCIATION: Przemysłowy Instytut Telekomunikacji, Warsaw (Industrial Institute of Radio Communications)

SUBMITTED: 15Apr64

NO REF SOV: 005

ENCL: 03

SUB CODE: EC

OTHER: 002

Card 2/5

L 1723-66

ACCESSION NR: AT5020917

ENCLOSURE: 01

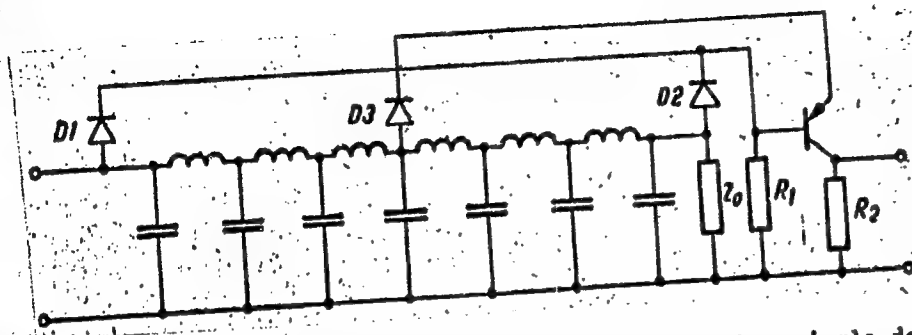


Fig. 1. Circuit for evaluating the pulse position with a single delay line.

Card 3/5

L 1723-66

ACCESSION NR: AT5020917

ENCLOSURE: 02

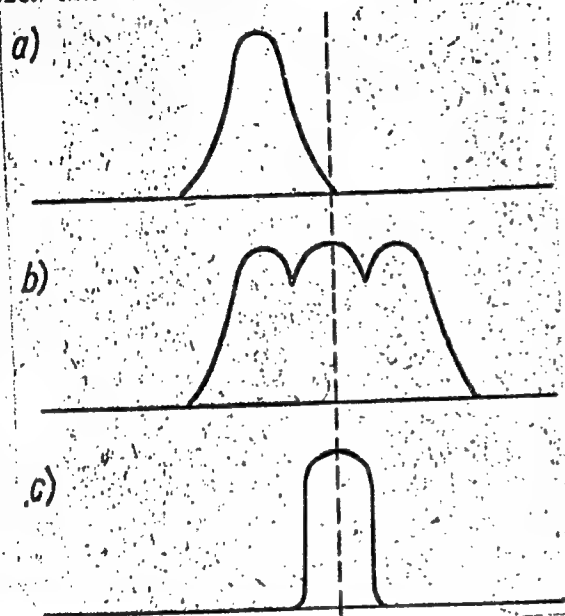


Fig. 2. Oscillograms: a--pulse at the circuit input; b--pulse at the base of the transistor; c--pulse at the collector output.

Card 4/5

L 1723-66

ACCESSION NR: AT5020917

**ENCLOSURE: 03**

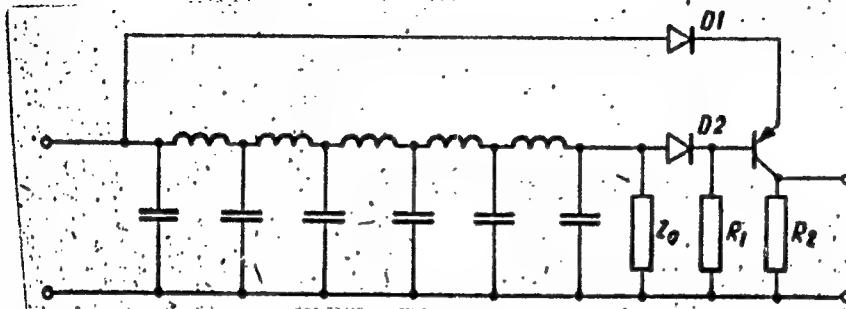


Fig. 3. Circuit for standardizing pulse slope.

Card 5/5 *RP*

TURCZYNSKI, S.

Comparative method of measuring peak small power high-frequency  
pulses. Przen. Inst. Telekom. prace 14 no. 46:45-47 '64.

L 39636-65 EEC-4/EEB-2/EEB-2/EWT(1)/ENA(h) PL-4/Pn-4/Peb JM  
P/2507/64/014/045/0061/0064

ACCESSION NR: AT5006319

AUTHOR: Turczynski, S. (Turchinski, S.)

38  
B+1

TITLE: Measurement of the noise factor during continuous wave interference

SOURCE: Warsaw. Przemyslowy Instytut Telekomunikacji. Prace, v. 14, no. 4, 1964, 61-64

TOPIC TAGS: noise figure, noise power, measurement, interference measurement, cw interference

ABSTRACT: Factors in noise factor measurements are analyzed for cw interference

Gaussian distribution of the constant components in the case of cw interference

Card 1/1

L 39636-05

ACCESSION NR: AT5006319

Enclosure An expression is required of the instrument which  
formula is as follows:

reference volume to be used:

ASSOCIATION: none

SUBMITTED: 07Dec63

ENCL: 03

SUB CODE: EC

NO REF SOV: 004

Card 2/5



P/507/60/010/030/004/005  
D271/D308

9,2590

AUTHOR: Turczyński, S.

TITLE: A delay line for the 29 - 31 Mc/s band

SOURCE: Warsaw. Przemysłowy Instytut Telekomunikacji, Prace, .  
v. 10, no. 30, 1960, 67 - 71

TEXT: A delay line built as a band-pass filter composed of n inductively coupled resonance circuits is analyzed. Matrix equations for a single circuit are compared with those for a transmission line, and the lumped circuit is replaced by the equivalent line. Starting from this, formulas are derived for the bandwidth, wave impedance, delay and attenuation of a single circuit. The expression for the group delay at the resonance frequency is

$$t_0 = \frac{d(\beta l)}{d\omega} \quad \omega = \omega_0 \quad = \frac{1}{k \omega_0 \sqrt{1 + \left(\frac{1}{2kQ}\right)^2}} \quad (15)$$

where all symbols have commonly used meanings. The wider the band,

Card 1/2

A delay line for the 29 - 31 Mc/s band

P/507/60/010/030/004/005  
D271/D308

the lower the delay produced by a single circuit. The analysis of a multi-circuit delay line leads to the conclusion that phase shifts and attenuations are purely additive, the impedance of the line is equal to that of a single circuit, and the bandwidth of a loss-less line is identical with that of a single cell. The author describes the construction of a delay line consisting of 5 sectors of 48 circuits each; the sectors are separated by electron tubes. A 1 : 3 transformer matches the line to a 70 ohm co-axial cable. The circuit in which the line was measured is shown as well as some measurement results. 3 dB bandwidth is 2 Mc/s, with a ripple of  $\pm 1.5$  dB, delay is 10  $\mu$ sec and attenuation is 10 dB/ $\mu$ sec. There are 8 figures.

Card 2/2

9.2590

S/194/62/000/003/058/066  
D271/D301

AUTHOR:

Turczynski, S.

TITLE:

A delay line for the 2. - 31 Mc/s band

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 3, 1962, abstract 3-7-36r (Prace Przemysł. inst.  
telekomun., 1960, v. 10, no. 30, 67-71)

TEXT: Frequency and time characteristics are derived by matrix  
method for an artificial line consisting of a series of inductively  
coupled tuned circuits. An electron tube circuit including such de-  
lay line is shown. Construction of the line is described and its  
selectivity characteristic and an oscillogram of a pulse travelling  
through the line are shown. 2 references. [Abstracter's note: Com-  
plete translation.]

Card 1/1

L 47414-66

ACC NR: AT6028778

ture range of 10—60C and also at an ambient temperature of 20C when the supply voltage is changed from 4 to 12 v. Orig. art. has: 5 figures, 14 formulas, and 2 tables. [Based on author' s abstract] [NT]

SUB CODE: 17/ SUBM DATE: 25Jan65/ ORIG REF: 001/ OTH REF: 002/

Card 2/2 vlr

TURCZYNSKI, Tadeusz

Prophylactic measures in Rh in incompatibility in pregnancy.  
Postepy hig. med. dosw. 12 no.2:101-112 1958.

1. Instytut Immunologii i Terapii Doswiadczałnej PAN im. Ludwika  
Hirszfelda Ośrodek Badania Patologii Ciąży. Wrocław, ul. Chalubinskiego 4.  
Adres: I Klinika Położnictwa i Chorob Kobiecych AM, Wrocław, ul.  
Chalubinskiego 3.

(ERYTHROBLASTOSIS, FETAL, prevention and control  
review (Pol))

*TURCZYNSKI, T.*  
BOHDANOWICZ, E.; TURCZYNSKI, T.; OSINSKA, M.; STOCHOWA, K.

Studies on exchange transfusion and on other remedies in hemolytic disease of newborn. *Pediat. polska* 28 no.9:928-931 Sept 1953.

(CML 25:5)

1. Of the Pathology of Pregnancy Research Center and of the First Obstetric Clinic and of the Institute of Microbiology, Wroclaw.

TURCZYNSKI, Tadeusz; WAWRZEWIZ, Marian

Effect of phenergan on contractile function of uterus in the second half of pregnancy. Polski tygod. lek. 11 no.45:1921-1927 5 Nov 56.

1. (Z I Kliniki Poloznictwa i Chorob Kobietych A.M. we Wroclawiu; Kierownik: doc. dr. K. Nowosad i z Instytutu Immunologii i Terapii Doswiadczalnej P.A.N. im L. Hirszfelda we Wroclawiu; dyr.: prof. dr. C. Slopek) adres: Wroclaw, Plac Westerplatte 3 m 7.

(ANTI-HISTAMINICS, effects, promethazine on uterus contraction in second half of pregn. (Pol))

(UTERUS, effect of drugs on, promethazine on contractions in second half of pregn. (Pol))

(PREGNANCY, eff. of promethazine on uterine contractions in second half (Pol))

TURCZYNSKI, Tadeusz

Prevention of abortions and of premature labor with the aid of phenergan. Polski tygod. lek. 11 no.50:2118-2121 10 Dec 56.

1. Wroclaw, pl. Westerplatte 3.

(ABORTION,

threatened, prev. with promethazine (Pol))

(LABOR,

premature, prev. with promethazine (Pol))

(ANTI-HISTAMINICS, therapeutic use,

promethazine, premature labor & threatened abortion

prev. (Pol))



Turczyński, T.  
HIRSZFELD, L.; KRZYSZTOPORSKI, S.; KLAWE, H.; TURCZYŃSKI, T.

Conservative therapy and prevention of blood groups incompatibility.  
Med. doaw. mikrob., Warsz. 4 no. 3:339 1952. (CIML 23:3)

1. Summary of work progress presented at 11th Congress of Polish  
Microbiologists held in Krakow May 1951. 2. Wroclaw.

EXCERPTA MEDICA Sec 10 Vol 10/9 Obstetrics Sept 57.

1599. TURCZYŃSKI T. | pl. Westerplatte 3, Wrocław. \*Zapobieganie poronieniom i porodom przedwczesnym za pomocą fenerganu. Prophylaxis with phenergan in threatening abortion and premature labour  
POL. TYG. LEK. 1956, 11/50 (2118-2121) Tables 2 Illus. 1

Phenergan was administered always at the very beginning of symptoms and signs of imminent abortion or premature parturition. In all 14 women relief of pain was achieved. The author emphasizes the important sedative and analgetic action of the drug. In 3 cases, in which premature labour had already begun, transient antispastic action was observed. Abortion in cases of dead fetuses could not be stopped. Phenergan was applied in a dose of 25-50 mg. daily. The period of treatment did not exceed 4 days. Phenergan has all the advantages of products from the morphine group, and is devoid of their defects. The results obtained were controlled with a tocograph..

KRZYSZTOPORSKI, S.; KLAWE, H.; TURCZYNSKI, T.

Antistin in obstetrics (with exception of abortions). Polski tygod.  
lek. 5 no.41:1433-1435 9 Oct 50.  
(CLWL 20:6)

1. Of the Clinic of Obstetrics and Female Diseases of the Wroclaw  
Medical Academy (Head--Prof.S. Krzysztoporski,M.D.) and of the Insti-  
tute of Medical Microbiology of Wroclaw Medical Academy (Head--Prof.  
L.Hirszfeld,M.D.). Work done for the Research Center on the Pathol-  
ogy of Pregnancy, Wroclaw.

HIRSZFELD, L.; KRZYSZTOPORSKI, S.; KLAWE, H.; TURCZYNSKI, T.; OSINSKA, M.;  
STOCHOWA, K.; LIBERSKA, H.

Further studies on the action of antiallergic drugs on  
pathological manifestations in pregnancy, with special  
reference to habitual abortions. Polski, tygod. lek. 6  
no.25-26:786-795 25 June 51. (CIML 21:1)

1. Of the Research Center for the Pathology of Pregnancy  
of the Obstetric-Gynecological Clinic in Wroclaw and of  
the Institute of Medical Microbiology.

SIWINSKI, Jerzy, doc. dr inż.; TURCZYŃSKI, Zbigniew, inż.

Automatic control and density regulation device for flotation  
feeding. Przegl górni 20 no.10:Suppl.:Miał Glow inst górni 14  
no.3:35-36 '64.

HIRSZFELD, L., KRZYSZTOPORSKI, S., OSINSKIEJ, M., STOCHOWIEJ, K.,  
TURCZYNSKIEGO, T.

Further investigations on preventing abortions by antistine. Polska  
tygod. lek. 5:9, 27 Feb. 50. p. 321-5

1. Of the Institute for Medical Microbiology and of the Clinic  
Obstetrical-Gynecological of the Medical Academy in Wrocław.

CMML 19, 5, Nov., 1950

L 42881-66 EWP(e)/EWT(m) WH SOURCE CODE: UR/0078/66/011/004/0931/0933  
 ACC NR: AP6022895

43  
B

AUTHOR: Turdakin, V. A.; Tarasov, V. V.

ORG: none

TITLE: Heat capacity of boric anhydride and sodium borate glasses at low temperatures

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 4, 1966, 931-933

TOPIC TAGS: borate glass, boron compound, heat capacity

ABSTRACT: In order to confirm experimentally the authors' theory on the "vulcanizing" role of oxygen atoms introduced into the structure of glass along with an oxide modifier, the low-temperature heat capacity of vitreous  $B_2O_3$  and glasses of the  $Na_2O-B_2O_3$  system in the range of low  $Na_2O$  concentrations was measured. The assumption was that the varying degrees of three-dimensional distribution of natural vibration frequencies should be reflected in the spectrum of distribution of natural vibration frequencies. The of the framework and by the heat capacity curve at low temperatures (55-300°K). The glasses had the following composition:

- glass No. 1: 7.87 mole %  $Na_2O$ , 92.13 mole %  $B_2O_3$ ;
- glass No. 2: 13.70 mole %  $Na_2O$ , 86.30 mole %  $B_2O_3$ ;
- glass No. 3: 21.09 mole %  $Na_2O$ , 78.91 mole %  $B_2O_3$ .

UDC: 536.63:546.273-31+536.63:546.33:273-161.6

Card 1/2

TURDAKOV, F.A.; TURDAKOV, A.F.

Parthenogenesis and other developmental characteristics of  
leuciscus bergi Kaschkarov in Lake Issyk-Kul'. Izv. AN Kir.  
SSR, Ser. biol. nauk 1 no. 4:3-44 '59. (MIRA 13:7)  
(Issyk-Kul'--Carp) (Parthenogenesis(Animals))  
(Embryology--Fishes)



TURDAKOV, A.F.

Bullheads (genus Cottus) of Central Asia. Izv. AN Kir.  
SSR, Ser. biol. nauk 1 no. 4: 125-136 '59.

(MIRA 13:6)

(Soviet Central Asia--Sculpin)

TURDAKOV, A.F.

Characteristics of the spermatozoa of some Issyk-Kul' fishes.

Vop. ikht. 2 no.2:275-282 '62.

(MIRA 15:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut ozernogo i  
rechnogo rybnogo khozyaystva -(GosNIORKh), Leningrad.  
(Issyk-Kul'—Carp) (Spermatozoa)

TURDAKOV, A.F.

Parthenogenetic development of *Leuciscus bergi* Kashchkarov in  
Lake Issyk-Kul'. Vop. ikht. 1 no.3:491-496 '61. (MIRA 14:11)

1. Kafedra ikhtiologii Moskovskogo gosudarstvennogo universiteta.  
(Issyk-Kul'—Carp)  
(Parthenogenesis (Animals))

TURDAKOV, Aleksey Fedorovich; PIKTOVA, L.G., etc. red.

[Reproduction and development of leucistic Bergi  
Kaschkarov in Lake Issykkul'] kazamoshende i razvitie  
issyk-kul'skogo chebachka. Frunze, Izd-vo "Ilim,"  
1965. 89 p. (MIRA 18:10)

TABLE I BOOK INFORMATION 507/5713

Experimental'nyy mashino-isledovatel'skiy institut kuznetchno-presovogo mashino-  
stroeniya

Zashchita i razvitiye mashin kuznetchno-shitovogo proizvodstva (Studies  
and Calculations of Forging and Blanking Machinery) Moscow, Makhis, 1959.  
532 p. (Series: Iti Shorok, kuz 1) Erva aliq inserted. 5,000 copies  
printed.

Sponsoring Agency: USSR. Gosstatizvny komitet po avtomatizatsii i mashino-  
stroeniya.

Ed.: A. I. Kot'yev, Candidate of Technical Sciences; Ed. of Publishing House:  
N. S. Stepanchenko; Tech. Ed.: V. Sokolova; Managing Ed. for literature:  
G.P. Kol'shakov, Engineer; V. P. Vytkin, Candidate of Technical Sciences;  
N. I. Vasil'yev, Engineer; A. P. Ivanov, Engineer; I. A. Matveyev, Candidate  
of Technical Sciences; M. A. Mar'yanchik, Engineer; P. V. Korichkov, Engineer;  
N. S. Pavlovichikov, Engineer; S. A. Podval, Engineer; L. V. Rubenkov, V. S.  
Rubinov; P. D. Chudakov, Candidate of Technical Sciences; and A. I. Kot'yev.

PURPOSE: The book is intended for technical personnel and scientific workers  
in the metal-forming industry.

COVERAGE: This collection of 12 articles deals with current research on metal-  
forming operations, the design and operation of press-forming machinery, and  
stress and force analyses in punching and blanking operations. 55 referen-  
ces are mentioned. References follow each article.

TITLE OF CONTENT

Goncharova, T. B., and M. A. Zhelezova. Use of Brittle Lacquer Coat-  
ings as Strain Indicators for Machine Elements 222

The article deals with a number of lacquers and oxides and resin coat-  
ings used in the stress analysis of parts for metal-forming machinery.  
A resin coating based on dichloroethylene is particularly recommended.  
Series of the results of coating of test pieces with 5 different  
stress-indicating agents, including the recommended one, are given in  
a table.

Zolotarev, V. D., and A. S. Zhuravskiy [Engineers]. Investigation into  
the Expediency of Manufacturing Welded Frames and Beds for Mechanical  
Presses 227

The authors compare and analyze some economic indices for a number  
of cast and welded frames of 12 types of mechanical presses,  
manufactured by the two foremost plants and the Bureau plant.  
Specifications of the presses are given. The authors favor welding  
over casting because of cost considerations.

AVAILABILITY: Library of Congress

Card 10/10

AC/jm/ru  
7-50-60

ZOLOTAREV, V.Ya., inzh.; TURDAKOV, A.S., inzh.

Investigating the economic construction of welded bedplates for  
mechanical presses. [Nauch. trudy] ENIKMASHa 1:227-234 '59.  
(MIRA 14:1)

(Power presses---Welding)

TURDAKOV, F.A.

Variation in the size and form of eggs in the mulberry silkworm  
(*Bombyx mori* Z). Uch. zap. Biol.-pochv. fak. Kir. un. no.7:247-  
282 '58. (MIRA 15:10)

(Insects-Eggs)

(Silkworms)

TURDAKOV, F.A.

Application of variational statistical indices in the investigation  
of some problems of variability in fish populations. Vop. ekol.  
4:152-153 '62. (MIRA 15:11)

1. Institut biologii AN Kirgizskoy SSR, Frunze.  
(Fish populations) (Biometry)



TURDAKOV, F. A.

"Age selection." (pp. 173-89) by F. A. Turdakov

SO: Journal of General of General Biology (Zhurnal Obshchei Biologii) Vol. 4, No. 3, 1943

*TURDAKOV, P.A.*  
TURDAKOV, P.A.

New subspecies of loach from Issyk-Kul. Trudy Biol.inst.Kir PAN  
SSSR no.1:153-156 '47. (MLRA 8:10)  
(Issyk-Kul--Loaches)

TURDAKOV, F.A.; LUZHIN, B.P.; BARANZIN, N.A.

Incubation of *Diptychus roe* in Weiss and Williamson apparatus.

Trudy Inst.zool.i paraz.AN Kir.SSR no.7:97-107 '59.

(MIRA 13:4)

(Fish culture) (Perch)

TURDAKOV, F.A.

Changes in the salinity of water during the incubation of roe.

Trudy Inst.zool.i paraz.AN Kir.SSR no.7:109-122 59.

(MIRA 13:4)

(Fish culture) (Salinity)

TURDAKOV, F.A.

Work of the Ichthyological Laboratory of the Kirghiz Branch of the  
Academy of Sciences of the U.S.S.R. Izv.KirFAN SSSR no.1/10:71-74  
'51. (MLRA 8:1)  
(Kirghizistan--Ichtyology)

TURMANOV, F. I.

Ryby Kirgizii /Fishes of Kirgizia/. Frunze, Izd. Kirgizskogo filiala Akade ii nauk  
SSSR, 1952. 171 p.

SO: Monthly List of Russian Accessions, Vol. 6 No 10 January 1954

USSR/Miscellaneous - Books

Card 1/1 : Pub. 86 - 31/34

Authors : Burdin, A. K.

Title : Valuable book on the ichthyofauna of Central Asia

Periodical : Priroda 1, 121-123, Jan 1954

Abstract : Review is presented of the book, by F. A. Turdakov, entitled, "The Fish of the Kirghiz Country," which offers biological data regarding the ichthyofauna of Central Asia.

Institution : .....

Submitted : .....

TURDAKOV, F.A., redaktor; SEREBRYAKOV, V.I., tekhnicheskiy redaktor

[Ichthyological papers] Ikhtiologicheskii sbornik. Frunze, 1956.  
129 p. (MIRA 10:1)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut zoologii i  
parazitologii.  
(Kirghizistan--Fishes)



TURCEK, Frantisek, Jozef

Main pests of some young forest stands. Les cas 10 no. 3:  
275-282 Mr '64.

1. Research Institute of Forestry, Banska Stiavnica.

TURCHANINOV, S.P., kand.tekhn.nauk

Effect of the size of the material being transported on the hydraulic erosion of pressure pulp ducts. Ugol' Ukr. 7 no.6:24-26  
Je '63. (MIRA 16:8)

1. Institut gornogo dela im. A.A.Skochinskogo.

TURENSCH, E. (last)

"A new guide for the determination of Graminaceae." *Natura*  
*Biologie* 16 no.2:92-93 Mr-Apr '64.

KALITEYEVSKIY, Rostislav Yevgen'yevich; TAREKANOVA, Aleksandra  
Aleksandrovna; TURBETSKIY, Samuil V. I'fovich;  
BAKHTEYAROV, V.P., red.

[Mechanized continuous sawmilling with the R63 log frame  
saws] Mekhanizirovannyye potoki s lesopil'nymi ramami R63.  
Moskva, Izd-vo "Iesnaya promyshlennost'," 1964. 35 p.  
(MIRA 17:6)

TURDAKOV, F.A., prof. otv. red.

[Biological studies on Lake Issykkul'] Biologicheskie  
issledovaniia na ozere Issyk-Kul'. Frunze, Izd-vo "Ilim,"  
1965. 130 p. (MIRA 18:11)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut biologii.

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PHASE I BOOK EXPLOITATION SOV/303

Prunze, Universitet. Nauchnoye studenteskoye obshchestvo  
Sbornik nauchnykh rabot studentov" YPP. 2 (Collection of Sci-  
entific Works of Students, No. 2) Prunze, 1959. 99 p. 500  
copies printed.

Sponsoring Agency: Kirovskiy gosudarstvennyy universitet.  
Nauchnoye studenteskoye obshchestvo.

Resp. Ed.: L. A. Spectorov, Docent; Tech. Ed.: M. A. Yefimov.

PURPOSE: This book is intended for mathematicians, natural  
scientists, and philologists.

CONTENT: The collection of articles contains studies in mathe-  
matics and physics, biology, and philosophy written  
by members of the Nauchnoye studenteskoye obshchestvo  
(Students' Scientific Association) of Kirovskiy gosudarstvennyy  
universitet (Kirov State University) under the guidance of  
faculty members. References accompany each article.

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Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,  
pp 152-153 (USSR) 14-57-7-15155

AUTHOR: Turdakov, F. A.

TITLE: Commercial Fish in Lake Issyk-Kul' (Ocherk biologii  
promyslovykh ryb ozera Issyk-Kul')

PERIODICAL: Ikhtiol. sb. Frunze, AN KurgSSR, 1956, pp 3-66

ABSTRACT: From 1950 to 1953 the Ichthyological Laboratory of  
the Kirgiz Branch of the AS USSR studied the fish  
in Lake Issyk-Kul'. This lake is located in the  
Tyan' Shan' mountains at 1620 m above sea level. Its  
area is 6200 sq km, its average depth is 279 m, and  
its maximum depth is 702 m. Productive pelagic zone  
of the lake comprises only 36.5 percent of its total  
area, less than 100 m deep. Shores are slightly  
eroded. The shore soils are composed of sand and  
gravel, while the inlets contain cemented sand with

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Commercial Fish in Lake Issyk-Kul' (Cont.)

shells. The latter type forms slabs which are called "koryazhinki." Further down, to the depth of 45 m, lie gray and dark soils which smell of  $H_2S$  and contain growths of characeae. At greater depth the soil is gray and contains lime and a mass of Ostracoda. Since 1910 the water level has been falling (it dropped 1 m between 1936 and 1950). There are counter-clockwise currents in the lake. The water is warm. Its average winter temperature in the surface layer is approximately  $3^{\circ}C$ . The temperature remains constant at about  $4^{\circ}C$  below the depth of 100 m. Only in the Gulf of Tyup does the winter water temperature drop to  $0.1^{\circ}C$  and forms ice. The water is transparent for approximately 15 m. Oxygen saturation from the surface to the deepest parts does not fall below 75 percent. Average water salinity is 5.82 percent, and is of the chloride-sulfate type. The water Ph is 8.7 to 8.9 and its hardness is 132 German degrees. The ion concentration of Lake Issyk-Kul' is similar to that of Lake Aral and Caspian seas. The shore zooplankton is composed of Rotatoria, Copepoda, and Cladocera, and each group is represented by numerous species. In the open lake the zooplankton is not so rich, and

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## Commercial Fish in Lake Issyk-Kul' (Cont.)

Copepoda predominate. The pelagic phytoplankton is very varied and is dominated by the diatoms, of which 250 species are present. Benthonic life is poorly developed. There are four species of Mollusca (including Chironomidae in the fresh-water parts of the lake), eight species of Oligochaeta, three species of Hirudinea, and five species of Gammaridae. A mass of Ostracoda is found both in the lime-rich gray ooze extending to great depth, and in the springs at the shore. These Chironomidae and Ostracoda have not been classified farther. Characeae represent dominant vegetation. They form large "characeae meadows" which reach a depth of approximately 100 m and thrive during the winter. There are 13 species and 21 varieties of ichthyofauna in Lake Issyk-Kul'. They belong to eight genera and three families. Three genera (Schizothora, Diptychus, Nemachilus) are of Central Asiatic origin or are related to Central Asiatic genera; two genera (Leuciscus and Phoxinus) are of northern origin, and two genera (Gobio and Cyprinus) are of Mediterranean origin. The author points out a number of specific features

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Commercial Fish in Lake Issyk-Kul' (Cont.)

of the Lake Issyk-Kul' ichthyofauna. 1) Certain genera are represented not by one but by two or more species (Leuciscus by two, Nemachilus by three, Phoxinus by two, and Diptychus by two or three). 2) "Endemism" of fishes is limited to species and subspecies, but at this level it is well developed. Both species of eels, Leuciscus schmidtii and L. bergi are endemic, as well as the Issyk-Kul' groundling Phoxinus issykkulensis, a subspecies of the gudgeon Gobio gobio latus, the Issyk-Kul' Schizothorax issykkuli, and others. 3) Ability of the species to change. Common species are represented by schools of local varieties. This is particularly true in the case of small species of limited mobility, such as the gudgeon. These schools differ in morphological features, in specific rate of growth, in the depths of wintering, in periods of shoreward migrations, etc. This differentiation succeeds, first of all, in separating a school-variety into lake dwellers and river dwellers and in altering the mode and the season of spawning. Thus arise varieties that spawn in lakes, the transitional, or more exactly, semi-transitional varieties, that spawn in rivers, and true river varieties.

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Commercial Fish in Lake Issyk-Kul' (Cont.)

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4) Occurrence of inter- and intraspecies hybridization (a cross between the carp and the bream, and between the Issyk-Kul' and the Tyup sucker). Local peculiarities and exceptional polymorphic conditions concentrated in a limited area are the causes of the unusual features in the ichthyofauna of Lake Issyk-Kul'. These conditions are so varied that even now they are far from being fully utilized by the fish which may continue to evolve intensively. The author examines various theories on the geological origin of Lake Issyk-Kul'. He discusses in detail certain questions on the origin of its species, and particularly the matter of the evolutionary significance of inter- and intraspecies hybridization. He supplements his views with concrete examples from the ichthyofauna of the lake. He also describes the biology of the various species of fish which he treats in the order of their decreasing commercial importance. The Issyk-Kul' salmon, Salmo ischchan issykogegarkuni, is an acclimatized fish which was brought here from Lake Sevan in Armenia. The salmon has so altered in its new environment that it was necessary to classify

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Commercial Fish in Lake Issyk-Kul' (Cont.)

it as a new subspecies. Its growth rate greatly increased--more than four times in the case of males, and six and a half times in the case of females. Although this salmon rarely attained a length of 60 cm and a weight of 4 kg in Lake Sevan, specimens 89 cm long and weighing 10 kg have been found in Lake Issyk-Kul'. The average weight of a commercial salmon in Lake Sevan is 460 g, while in Lake Issyk-Kul' it is 2050 g. Apparently the most important factor contributing to the increased growth of the salmon in its new environment is its food. While the basic food of the adult salmon in Lake Sevan is crawfish, the stomachs of Lake Issyk-Kul' salmon have most frequently revealed traces of scavenger fish, and particularly of Nemacheilus barbatulus. During the latter part of December and the month of January the streams on the southern bank of the lake, the Ton, Aksay, Ak-Terek, and Tosor, serve the Issyk-Kul' salmon as spawning-grounds. Its fertility has increased five or six times. The eggs are buried in the ground and take an average of 470 days to mature. The fingerlings live in the rivers until autumn, when they move out into the lake after they have attained a length of

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Commercial Fish in Lake Issyk-Kul' (Cont.)

approximately 90 mm. Large specimens are found over the entire lake. The bream, or "little herring" (Leuciscus bergi), is the most common variety. It is basic to the fishing industry, and accounts for approximately 90 percent of the catch. It ranges from the shore to depths of 120 m to 150 m. The greatest number of bream is found along the northern shore and in the Rybachye, Tyup, and Dzhergalan Bays. This bottom dwelling polypelagic fish follows a migratory pattern within a circumscribed area--in the spring it moves from the deep water to the shore, and in the autumn in the opposite direction. It forms local schools. During the year the bream has two runs of commercial importance; the first in May and June when it spawns, and the second from July to September, when it is feeding. The Issyk-Kul' carp (Leuciscus schmidtii) appears at the present time in insignificant numbers and constitutes only about 5 percent of the catch. But in 1955, according to Lindberg's data, it represented a basic commercial fish, comprising from 25 to 80 percent of the catch. It lives only in the lake and does not enter the rivers. A slow  
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Commercial Fish in Lake Issyk-Kul' (Cont.)

growing variety of this species inhabits certain lakes of the flood-plain of the River Tyup. It is found only in the fresher water sections along the shore of Lake Issyk-Kul'. Its spawning beds are located among the cemented slabs up to 2 m deep. Its feeding grounds are somewhat deeper (up to 15 m) among the characeae beds. It passes the winter in depths up to 50 m or 60 m. It does not form large migratory schools. The Issyk-Kul' Schizothorax issykkuli is more widely distributed in the lake than other species, but its numbers are small. It constitutes about 3 percent of the catch. It spawns in depths up to 3 m among the cemented slabs, feeds on the "underwater meadows" of characeae down to 16 m, and winters at still greater depths. The author includes the descriptions of the Issyk-Kul' salmon trout (Diptychus dybowski) of which three varieties are found--the spring and river, the lake, and the transitional variety; of the Issyk-Kul' carp (Cyprinus carpio); and of a number of non-commercial species, such as the groundling (Phoxinus issykkulensis and Ph. poljakowi); the gudgeon (Diptychus maculatus and D. maculatus)

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Commercial Fish in Lake Issyk-Kul' (Cont.)

sewerzowi); the gray groundling (Nemachilus dorsalis; the Strauch sucker (Nemachilus strauchi ulacholicus); and the Tyup sucker (N. strauchi dorsaloïdes). He also discusses the relationships among the different representations of the fauna, lists the fish, and describes the distribution of each species. A bibliography of 31 titles is included.

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S. R.

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~~TURDAKOV, F.A.~~

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Maslakov) AMN SSSR, Leningrad.

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Khaskin) Instituta akusherstva i ginekologii AMN SSSR (dir. -  
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(TUBERCULOSIS, FEMALE GENITAL, ther.

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(GENITALIA, FEMALE, diseases  
tuberc., ther., pneumoperitoneum)

(TUBERCULOSIS

of genitalia, female, ther., pneumoperitoneum)

(PNEUMOPERITONEUM, ARTIFICIAL, ther. use  
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